

A2
and Method of Use for Laser Tuning" to inventors Hopkins et al., co-filed herewith. The
aforementioned disclosures are incorporated herein by reference.

Please replace paragraph 0056 with the following paragraph:

A3
The use of a thermally controlled tuning element to positionally adjust an end
mirror and other optical components in an external cavity laser is also described in U. S.
Patent Application Ser. No. 09/814,646 to inventor Andrew Diaber, filed on March 21,
2001, and in U.S. Patent Application Ser. No. 09/900,443 entitled "Laser Apparatus with
Active Thermal Tuning of External Cavity" to inventors Mark Rice et al., which is co-filed
simultaneously herewith. These disclosures are incorporated herein by reference. End
mirror 14 may alternatively be tuned or adjusted by various other tuning mechanisms
according to error signals derived from voltage measured across gain medium 12. For
example, end mirror 14 may be tuned by a phase compensator or mechanically
positioned by a stepper motor operating according to instruction from controller 76.

In the Claims

Please cancel claim 22 without prejudice.

Please amend claims 21 and 30 as follows.

- A4
B7
21. A laser apparatus, comprising:
- (a) a gain medium to emit a coherent beam along an optical path;
 - (b) a reflector positioned in said optical path and defining a laser cavity;
 - (c) a voltage sensor operatively coupled to said gain medium to monitor
voltage across said gain medium; and
 - (d) a control system operatively coupled to said voltage sensor and to a loss
element positioned in said optical path in said cavity, said control system to adjust said
loss element according to said monitored voltage across said gain medium to reduce
optical losses associated with said cavity.